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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/700,140	02/05/2001	Tetsujiro Kondo	450101-02537 1959	
20999	7590 12/28/2005	EXAMINER		
FROMMER LAWRENCE & HAUG 745 FIFTH AVENUE- 10TH FL.			WHIPKEY, JASON T	
NEW YORK,			ART UNIT	PAPER NUMBER
· · · · · · · · · · · · · · · · · · ·			2612	

DATE MAILED: 12/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		09/700,140	KONDO ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Jason T. Whipkey	2612		
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
2a)☐ 3)☐	 Responsive to communication(s) filed on <u>17 November 2005</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 				
Dispositi	on of Claims				
5) ☐ 6) ☒ 7) ☐ 8) ☐ Applicati 9) ☐ 10) ☒	Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-14 is/are rejected. Claim(s) is/are objected to. Claim(s) is/are object to restriction and/o on Papers The specification is objected to by the Examine The drawing(s) filed on 05 February 2001 is/are Applicant may not request that any objection to the	wn from consideration. r election requirement. r. e: a)⊠ accepted or b)□ objected	•		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed November 17, 2005, with respect to the rejection of claims 1-14 under 35 U.S.C. 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground of rejection is made in view of McCutchen.

2. This action is non-final because a new ground of rejection is being applied to unamended claims.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out

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the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1, 4, 5, and 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Driscoll (U.S. Patent No. 6,593,969) in view of McCutchen (U.S. Patent No. 5,703,604).

Regarding **claims 1, 4, and 14**, Driscoll discloses a panoramic camera and its associated processing device. The system captures a distorted annular image, as shown in Figure 3A (a "distorted picture image"), into the corrected image shown in Figure 3B.

The system is comprised of the components shown in Figure 13A, including panoramic camera system 1205 ("image pick-up means"), a network ("communication means"), and computers ("a picture image display unit") connected to the network (column 10, line 64, through column 11, line 3). Digitized annular images captured by panoramic camera system 1205 are stored in annular video storage system 1230 ("memory means") (column 10, lines 42-43).

A computer user makes a request using the GUI shown in Figure 13B, wherein a desired viewing area is requested by moving locator window 1315 (column 11, lines 12-15). The requested viewing area is transmitted by the network to user input processing routines 1250 and 1253 ("selector means") (column 11, lines 19-20). User input processing routines 1250 and 1253 instruct annular to video conversion units 1240 and 1243 ("picture image conversion means") to produce and output corrected (i.e., non-distorted) images of the selected area to the computer (column 11, lines 19-24).

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Driscoll is silent with regard to producing a high-quality image.

McCutchen discloses an imaging system (see Figure 1) that produces a high-resolution image from a selected area of an original image (see column 13, lines 25-29).

An advantage of producing a high-quality image is that the resulting image is more pleasing to the eye. For this reason, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have Driscoll's device produce a high-quality image from a non-distorted image.

Claim 5 may be treated like claim 1. Additionally, Driscoll teaches that image processing is performed on computer system 1200 (column 10, line 34). It is inherent that computers perform processing using instructions stored in some form.

Claims 12 and 13 may be treated like claim 1. Additionally, it is inherent that a computer connected to a network has some sort of hardware interface to that network ("second communication means").

6. Claims 2, 6-8, 10, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Driscoll in view of McCutchen and further in view of Adams (U.S. Patent No. 5,652,621).

Claim 2 may be treated like claim 1. However, Driscoll is silent with regard to selecting distorted portions of the image for correction through classification adaptive processing.

Adams discloses a digital camera system that classifies pixels based on their properties and selects a type of processing to be performed on each pixel based on that classification (column 4, lines 37-44). An advantage of performing processing in this manner is that unnecessary processing is avoided. For this reason, it would have been obvious at the time of

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invention to have Driscoll's system classify pixels to determine whether distortion-corrective processing is necessary prior to performing such processing.

Regarding claims 6, 10, and 11, Driscoll discloses panoramic camera and its associated processing device. The system captures a distorted annular image, as shown in Figure 3A ("picture data having distortion"), into the corrected image shown in Figure 3B.

The system is comprised of the components shown in Figure 13A, including a network and computers connected to the network (column 10, line 64, through column 11, line 3).

Digitized annular images captured by panoramic camera system 1205 are stored in annular video storage system 1230 (column 10, lines 42-43).

A computer user makes a request using the GUI shown in Figure 13B, wherein a desired viewing area is requested by moving locator window 1315 (column 11, lines 12-15). The requested viewing area ("predetermined unit[s] of picture data" of a "feature") is transmitted by the network to user input processing routines 1250 and 1253 ("extraction means") (column 11, lines 19-20). User input processing routines 1250 and 1253 instruct annular to video conversion units 1240 and 1243 ("picture image conversion means") to produce and output corrected images of the selected area to the computer (column 11, lines 19-24).

Driscoll is silent with regard to selecting distorted portions of the image for correction through classification of pixels.

Adams discloses a digital camera system that classifies pixels based on their properties and selects a type of processing to be performed on each pixel based on that classification (column 4, lines 37-44). An advantage of performing processing in this manner is that unnecessary processing is avoided. For this reason, it would have been obvious at the time of

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invention to have Driscoll's system classify pixels to determine whether distortion-corrective processing is necessary prior to performing such processing.

Regarding **claim 7**, Driscoll's system includes panoramic camera system 1205 ("image pick-up means").

Regarding **claim 8**, Adams discloses a digital camera system that classifies pixels based on their properties and selects a type of processing to be performed on each pixel based on that classification (column 4, lines 37-44).

7. Claims 3 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Driscoll in view of McCutchen and Adams and further in view of Kondo (U.S. Patent No. 5,835,138).

Claims 3 and 9 may be treated like claims 2 and 6, respectively. However, Adams is silent with regard to performing adaptive dynamic range coding.

Kondo discloses an image signal processing apparatus that performs ADRC encoding on captured image data using ADRC encoder 8 (column 5, lines 28-30). An advantage of performing ADRC encoding on pixels prior to classifying them for processing is that the number of bits necessary to represent the image data is reduced, thus reducing the amount of processing necessary to manipulate the data. For this reason, it would have been obvious at the time of invention to have Adams's system perform ADRC coding on the image data prior to performing any processing.

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Conclusion

Any inquiry concerning this communication or earlier communications from the 8.

examiner should be directed to Jason Whipkey, whose telephone number is (571) 272-7321. The

examiner can normally be reached Monday through Friday from 9:00 A.M. to 5:30 P.M. eastern

daylight time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ngoc-Yen Vu, can be reached at (571) 272-7320. The fax phone number for the

organization where this application is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

December 14, 2005

PRIMARY EXAMINER

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